Contents

PART 1 AUGUST 1993

PAPERS

ERLINGER R, WELSCH U, SCOTT, J E. Ultrastructural and biochemical observations on proteoglycans and collagen in the mutable connective tissue of the feather star *Antedon bifida* (Echinodermata, Crinoidea) *page* 1

LOWDEN S, HEATH T. Lymphatic drainage from the distal small intestine in sheep 13

CHIEFFI BACCARI G, MINUCCI S, DI MATTEO L. The orbital glands of the terrapin *Pseudemys scripta* in response to osmotic stress: a light and electron microscope study 21

LEBONA G T. The presence of paraganglia in the human ascending aortic fold: histological and ultrastructural studies 35

MAITLAND P, ULLMAN S L. Gonadal development in the opossum, *Monodelphis domestica*: the rete ovarii does not contribute to the steroidogenic tissues 43

NOVOTNY GEK, SCHÖTTELNDREIER A, HEUER T. A light and electron microscopic quantitative analysis of the innervation of axillary lymph nodes in juvenile and old rats 57

ENGLAND M A, MATSUMURA G. Primordial germ cells in the primitive streak stages chick embryo as studied by scanning electron microscopy 67

SEIFERT R, JACOB M, JACOB H J. The avian prechordal head region: a morphological study 75

BROWN S C, STICKLAND N C. Satellite cell content in muscles of large and small mice 91

SOKOL R J, HUDSON G, WALES J M, GOLDSTEIN D J, JAMES N T. Quantitative enzyme cytochemistry during human macrophage development 97

GIANNESSI F, RUFFOLI R. Fine structure of the middle ear epithelium in the chicken (*Gallus gallus*) 103

SASAKI K, IWATSUKI H, SUDA M, ITANO C. Cell death and phagocytosis of haematopoietic elements at the onset of haematopoiesis in the mouse spleen: an ultrastructure study 113

FINDLATER G S, MCDOUGALL R D, KAUFMAN M H. Eyelid development, fusion and subsequent reopening in the mouse 121

GORDON L, POLAK J M, MOSCOSO G J, SMITH A, KUHN D M, WHARTON J. Development of the peptidergic innervation of human heart 131

HOWIE A J, SMITHSON N, ROLLASON T P. Reconsideration of the development of the distal tube of the human kidney 141

KUMAMOTO K, SENUMA H, EBARA S, MATSUURA T. Distribution of pacinian corpuscles in the hand of the monkey, *Macaca fuscata* 149

MWAMENGELE G L M, MAYHEW T M, DANTZER V. Purkinje cell complements in mammalian cerebella and the biases incurred by counting nuceoli 155

SHORT REPORTS

SAÑUDO J R, ROIG M, RODRIGUEZ A, FERREIRA B, DOMENECH J M. Rare origin of the obturator, inferior epigastric and medial circumflex femoral ateries from a common trunk 161

WAYMAN J, MILLER S, SHANAHAN D. Anatomical variation of the insertion of scalenus anterior in adult human subjects: implications for clinical practice 165

PROCEEDINGS OF THE ANATOMICAL SOCIETY OF GREAT BRITAIN AND IRELAND 169

ANNOUNCEMENTS 203

PART 2 OCTOBER 1993

SYMPOSIUM

SYMPOSIUM ON THE ADRENAL GLAND 205

UNSICKER K. The chromaffin cell: paradigm in cell, developmental and growth factor biology 207

KOBAYASHI S, COUPLAND R E. Morphological aspects of chromaffin tissue: the differential fixation of adrenaline and noradrenaline 223
WINKLER H. The adrenal chromaffin granule: a model for large dense core vesicles of endocrine and nervous tissue 237
SIGAFOOS J, CHESTNUT W G, MERRILL B M, TAYLOR L C E, DILIBERTO E J, VIVEROS C H. Novel peptides from adrenomedullary chromaffin vesicles 253
PARKER T L, KESSE W K, MOHAMED A A, AFEWORK M. The innervation of the mammalian adrenal gland 265
LIVETT B G, MARLEY P D. Noncholinergic control of adrenal catecholamine secretion 277
EDWARDS A V, JONES C T. Autonomic control of adrenal function 291
BURGOYNE R D, MORGAN A, ROBINSON I, CHEEK T R. Exocytosis in adrenal chromaffin cells 309
VERHOFSTAD A A J. Kinetics of adrenal medullary cells 315
SCHEUERMANN D W. Comparative morphology, cytochemistry and innervation of chromaffin tissue in vertebrates 327

SHORT REPORTS

MCMENAMIN P G, KRAUSE W J. Development of the eye in the North American opossum 343
YAMASAKI M. Comparative anatomical studies on the thyroid and thymic arteries. II. Polyprotodont marsupials 359
HERGUETA S, LEMIRE M, PIEAU C, WARD R, REPÉRANT J. The embryological development of primary visual centres in the turtle *Emys orbicularis* 367
LU J, KAUR C, LING E A. Intraventricular macrophages in the lateral ventricles with special reference to epiplexus cells: a quantitative analysis and their uptake of fluorescent tracer injected intraperitoneally in rats of different ages 405
ABE H, ONODERA M, SUGAWARA S. Scanning electron microscopy of goat oviductal epithelial cells at the follicular and luteal phases of the oestrous cycle 415
DIXON M J, ROBINSON V, WHITE A, FERGUSON M W J. Monoclonal antibodies recognising stage and region specific epitopes in embryonic mouse palatal epithelial cells 423

ANNOUNCEMENTS 439

PART 3 DECEMBER 1993

PAPERS

GRIFFITHS A L, RENFREE, M B, SHAW G, WATTS L M, HUTSON J M. The tammar wallaby (*Macropus eugenii*) and the Sprague–Dawley rat: comparative anatomy and physiology of inguinoscrotal testicular descent 441
THOMAS P K, COOPER J M, KING R H M, WORKMAN J M , SCHAPIRA A H V, GOSS-SAMPSON M A, MULLER D P R. Myopathy in vitamin E deficient rats: muscle fibre necrosis associated with disturbances of mitochondrial function 451
BECERRA M, ANADON R. Fine structure and development of ionocyte areas in the labyrinth of the trout (*Salmo trutta fario*) 463
GLENN J A, SONCEAU J B, WYNDER H J, THOMAS W E. Histochemical evidence for microglia-like macrophages in the rat trigeminal ganglion 475
OCKLEFORD C, MALAK T, HUBBARD A, BRACKEN K, BURTON S-A, BRIGHT N, BLAKEY G, GOODLIFFE J, GARROD D, d'LACEY C. Confocal and conventional immunofluorescence and ultrastructural localisation of intracellular strength-giving components of human amniochorion 483
REGADERA J, COBO P, PANIAGUA R, MARTÍNEZ-GARCÍA F, PALACIOS J, NISTAL M. Immunohistochemical and semiquantitative study of the apical mitochondria-rich cells of the human prepubertal and adult epididymis 507
SHIMELD S M, GAUNT S J, COLETTA P L, GEADA A M C, SHARPE P T. Spatial localisation of transcripts of the *Hox-C6** gene 515

LIN M, JONES R C. Spermiogenesis and spermiation in the Japanese quail (*Coturnix coturnix japonica*) 525
ISOMURA G. Blood supply to the cranial venae cavae and the heart in the laboratory shrew (*Suncus mirinus*) 537
MAYHEW T M, SØRENSEN F B, KLEBE J G, JACKSON M R. The effects of mode of delivery and sex of newborn on placental morphology in control and diabetic pregnancies 545
VAN LOMMEL A, LAUWERYNS J M. Neuroepithelial bodies in the Fawn Hooded rat lung: morphological and neuroanatomical evidence for a sensory innervation 553
KAMALANATHAN S, BROOM N D. The biochemical ambiguity of the articular surface 567
ALLEN W E, WILSON D J. Early embryonic angiogenesis in the chick area vasculosa 579
BEZUIDENHOUT A J. The spiral fold of the caecum in the ostrich (*Struthio camelus*) 587
FERRARIO V F, SFORZA C, PIZZINI G, VOGEL G, MIANI A. Sexual dimorphism in the human face assessed by euclidean distance matrix analysis 593
KENT C, PARKER K G. Effects of ACTH and aminoglutethimide on the catecholamine content and chromaffin cell morphology of the adrenal medulla of the neonatal rat 601
LU J, KAUR C, LING E A. Uptake of tracer by the epiplexus cells via the choroid plexus epithelium following an intravenous or intraperitoneal injection of horseradish peroxide in rats 609
LUNG M A. An investigation of the vascular organisation of the canine submandibular gland 619

SHORT REPORTS

DRAYER-VERHAGEN F. Arthritis of the subtalar joint associated with sustentaculum tali facet configuration 631
NAKASHIMA T, HOJO J, FURUKAWA H. Deep and shallow forms of the sulcus for extensor carpi ulnaris 635

OBITUARY: Professor G. A. G. Mitchell 639
BOOK REVIEWS 643
BOOK RECEIVED 647
ANNOUNCEMENTS 649
INDEX 651